PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference sankyoFP0503	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/JP2005/000434	International filing date (day/month/year) 07 January 2005 (07.01.2005)	Priority date (day/month/year) 08 January 2004 (08.01.2004)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant SANKYO COMPANY, LIMITED				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).			
2.	This REPORT consists of a total	of 6 sheets, including this cover sheet.		
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	. This report contains indications relating to the following items:			
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4.		mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority		

	Date of issuance of this report 22 August 2006 (22.08.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yoshiko Kuwahara
Facsimile No. +41 22 338 82 70	e-mail: pt07@wipo.int

PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION sankyoFP0503 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/000434 07.01.2005 08.01.2004 International Patent Classification (IPC) or both national classification and IPC Applicant SANKYO COMPANY, LIMITED This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Facsimile No. Telephone No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/000434

Box No. I		Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was , unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or
		furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	itional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/000434

Box No. II	II Non-establishment of opinion	on with regard to novelty, inventive step and industrial app	plicability
	ions whether the claimed invention a have not been examined in respect of:	appears to be novel, to involve an inventive step (to be no	on obvious), or to be industrially
	the entire international application		
\boxtimes	claims Nos. 27–31		
because	e:		
	the said international application, or the relate to the following subject matter visits and the said international application, or the said international application and the said international application are said international application.	he said claims Nos. 27–31 which does not require an international preliminary examination	on (specify):
	therefore, the International	e to methods for treatment of the human body Preliminary Examining Authority is not requivamination on them in according with the protection (iv).	ired to carry out an
	the description, claims or drawings (in are so unclear that no meaningful opin	ndicate particular elements below) or said claims Nos nion could be formed (specify):	
	the claims, or said claims Nos. by the description that no meaningful	opinion could be formed.	_ are so inadequately supported
\boxtimes	no international search report has bee	en established for said claims Nos. 27–31	_
	the nucleotide and/or amino acid sequ Instructions in that:	uence listing does not comply with the standard provided for	in Annex C of the Administrative
	the written form	has not been furnished	
	the computer readable form	does not comply with the standard has not been furnished does not comply with the standard	
		nd/or amino acid sequence listing, if in computer readable for Annex C-bis of the Administrative Instructions.	orm only, do not comply with the
	See Supplemental Box for further deta	ails.	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/000434

Box	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims	1-26	YES
		Claims		NO
	Inventive step (IS)	Claims	1-26	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-26	YES
		Claims		NO
2.	Citations and explanations:			

Document 1: Structure Requirements of Lipid A Responsible for the Functions: A Study with Chemically Synthesized Lipid A and Its Analogues, (J.Y. Homma, et al.), The Journal of Biochemistry, 1986, Vol. 98, No. 2, pages 395-406

Document 2: WO, 03-106473, A1 (Sankyo Co., Ltd.), 24 December, 2003 (24.12.03)

Document 3: JP, 10-324694, A (Sankyo Co., Ltd.), 8 December, 1998 (08.12.98)

Document 4: JP, 2001-348396, A (Sankyo Co., Ltd.), 18 December, 2001 (18.12.01)

Claims 1-26

The subject matters of claims 1-26 are not disclosed in any of the documents cited in the ISR, and so, appear to be novel and involve an inventive step.

Particularly the compounds represented by the general formula (I) and the medicinal uses of them are not disclosed in any of documents 1-4, which are recognized as the most relevant documents.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/000434

Box	No. VI Certain documents cited				
1.	Certain published documents (Rule 43bis.1 and 7	0.10)			
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)	
	JP 2004-217630 A [E, X]	05.08.2004	19.12.2003	24.12.2002	
	Sankyo Co., Ltd.				
2.	Non-written disclosures (Rule 43bis.1 and 70.9)				
	Kind of non-written disclosure	Date of non-written di (day/month/yea	sclosure referrin	Date of written disclosure referring to non-written disclosure (day/month/year)	
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